



IFWO

RAW SEQUENCE LISTING

DATE: 08/05/2004

PATENT APPLICATION: US/10/799,514

TIME: 11:02:11

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3 <110> APPLICANT: Spertini, Francois
 4 Corthesy, Blaise
 6 <120> TITLE OF INVENTION: Allergen Peptide Fragments and Use Thereof
 8 <130> FILE REFERENCE: 25720-502
 10 <140> CURRENT APPLICATION NUMBER: 10/799,514
 11 <141> CURRENT FILING DATE: 2004-03-12
 13 <150> PRIOR APPLICATION NUMBER: 60/455,004
 14 <151> PRIOR FILING DATE: 2003-03-14
 16 <160> NUMBER OF SEQ ID NOS: 23
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
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 22 <212> TYPE: PRT
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
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 33 Gly Pro Asn Glu Leu Gly Arg Phe Lys His Thr Asp Ala Cys Cys Arg
 34 20 25 30
 36 Thr His Asp Met Cys Pro Asp Val Met Ser Ala Gly Glu Ser Lys His
 37 35 40 45
 39 Gly Leu Thr Asn Thr Ala Ser His Thr Arg Leu Ser
 40 50 55 60
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 53 Lys His Gly Leu Thr Asn Thr Ala Ser His Thr Arg Leu Ser Cys Asp
 54 1 5 10 15
 56 Cys Asp Asp Lys Phe Tyr Asp Cys Leu Lys Asn Ser Ala Asp Thr Ile
 57 20 25 30
 59 Ser Ser Tyr Phe Val Gly Lys Met Tyr Phe Asn Leu Ile Asp Thr Lys
 60 35 40 45
 62 Cys Tyr Lys Leu Glu
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79 Gly Glu Arg Thr Glu Gly Arg Cys Leu His Tyr Thr Val Asp Lys Ser
80             20             25             30
82 Lys Pro Lys Val Tyr Gln Trp Phe Asp Leu Arg Lys Tyr
83   35             40             45
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93     Peptide
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96 Ile Ile Tyr Pro Gly Thr Leu Trp Cys Gly His Gly Asn Lys Ser Ser
97   1             5             10             15
99 Gly Pro Asn Glu Leu Gly Arg Phe Lys His Thr Asp Ala Cys Cys Arg
100             20             25             30
102 Thr His Asp Met Cys Pro Asp Val Met Ser Ala Gly Glu Ser Lys His
103             35             40             45
105 Gly Leu Thr Asn Thr Ala Ser His Thr Arg Leu Ser Cys Asp Cys Asp
106             50             55             60
108 Asp Lys Phe Tyr Asp Cys Leu Lys Asn Ser Ala Asp Thr Ile Ser Ser
109   65             70             75             80
111 Tyr Phe Val Gly Lys Met Tyr Phe Asn Leu Ile Asp Thr Lys Cys Tyr
112             85             90             95
114 Lys Leu Glu His Pro Val Thr Gly Cys Gly Glu Arg Thr Glu Gly Arg
115             100            105            110
117 Cys Leu His Tyr Thr Val Asp Lys Ser Lys Pro Lys Val Tyr Gln Trp
118             115            120            125
120 Phe Asp Leu Arg Lys Tyr
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134 Met Gly Val Phe Asn Tyr Glu Thr Glu Ala Thr Ser Val Ile Pro Ala
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137 Ala Arg Leu Phe Lys Ala Phe Ile Leu Asp Gly Asp Asn Leu Phe Pro
138          20          25          30
140 Lys Val Ala Pro Gln Ala Ile Ser Ser Val Glu Asn Ile Glu Gly Asn
141          35          40          45
143 Gly Gly Pro Gly Thr Ile Lys Lys Ile Ser Phe Pro Glu Gly Phe Pro
144          50          55          60
146 Phe Lys Tyr Val Lys Asp Arg Val Asp Glu Val Asp His Thr Asn Phe
147 65          70          75          80
149 Lys Tyr Asn Tyr Ser Val Ile Glu Gly Gly His Pro Val Thr Gly Cys
150          85          90          95
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169 Lys Tyr Asn Tyr Ser Val Ile Glu Gly Gly Pro Ile Gly Asp Thr Leu
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172 Glu Lys Ile Ser Asn Glu Ile Lys Ile Val Ala Thr Pro Asp Gly Gly
173          20          25          30
175 Ser Ile Leu Lys Ile Ser Asn Lys Tyr His Thr Lys Gly Asp His Glu
176          35          40          45
178 Val Lys Ala Glu Gln Val Lys Ala Ser Lys Glu Met Gly Glu Thr Leu
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201 Ala Arg Leu Phe Lys Ala Phe Ile Leu Asp Gly Asp Asn Leu Phe Pro
202          20          25          30
204 Lys Val Ala Pro Gln Ala Ile Ser Ser Val Glu Asn Ile Glu Gly Asn
205          35          40          45
207 Gly Gly Pro Gly Thr Ile Lys Lys Ile Ser Phe Pro Glu Gly Phe Pro
208          50          55          60
210 Phe Lys Tyr Val Lys Asp Arg Val Asp Glu Val Asp His Thr Asn Phe

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211 65          70          75          80
213 Lys Tyr Asn Tyr Ser Val Ile Glu Gly Gly Pro Ile Gly Asp Thr Leu
214          85          90          95
216 Glu Lys Ile Ser Asn Glu Ile Lys Ile Val Ala Thr Pro Asp Gly Gly
217          100          105          110
219 Ser Ile Leu Lys Ile Ser Asn Lys Tyr His Thr Lys Gly Asp His Glu
220          115          120          125
222 Val Lys Ala Glu Gln Val Lys Ala Ser Lys Glu Met Gly Glu Thr Leu
223          130          135          140
225 Leu Arg Ala Val Glu Ser Tyr Leu Leu Ala His Ser Asp Ala Tyr Asn
226 145          150          155          160
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239 Peptide
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242 Met Ser Trp Gln Thr Tyr Val Asp Glu His Leu Met Ser Asp Ile Asp
243 1          5          10          15
245 Gly Gln Ala Ser Asn Ser Leu Ala Ser Ala Ile Val Gly His Asp Gly
246          20          25          30
248 Ser Val Trp Ala Gln Ser Ser Ser Phe Pro Gln Phe Lys Pro Gln Glu
249          35          40          45
251 Ile Thr Gly Ile Met Lys Asp Phe Glu Glu Pro Gly His Leu Ala Pro
252 50          55          60
254 Thr Gly Leu His Leu Gly
255 65          70
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263 <220> FEATURE:
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265 Peptide
267 <400> SEQUENCE: 9
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271 Ile Gln Gly Glu Ala Gly Ala Val Ile Arg Gly Lys Lys Gly Ser Gly
272          20          25          30
274 Gly Ile Thr Ile Lys Lys Thr Gly Gln Ala Leu Val Phe Gly Ile Tyr
275          35          40          45
277 Glu Glu Pro Val Thr Pro Gly Gln Ser Asn Met Val Val Glu Arg Leu
278 50          55          60
280 Gly Asp Tyr Leu Ile Asp Gln Gly Leu
281 65          70
284 <210> SEQ ID NO: 10
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286 <212> TYPE: PRT
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293 <400> SEQUENCE: 10
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297 Gly Gln Ala Ser Asn Ser Leu Ala Ser Ala Ile Val Gly His Asp Gly
298           20           25           30
300 Ser Val Trp Ala Gln Ser Ser Ser Phe Pro Gln Phe Lys Pro Gln Glu
301         35         40         45
303 Ile Thr Gly Ile Met Lys Asp Phe Glu Glu Pro Gly His Leu Ala Pro
304       50       55       60
306 Thr Gly Leu His Leu Gly Gly Ile Lys Tyr Met Val Ile Gln Gly Glu
307   65           70           75           80
309 Ala Gly Ala Val Ile Arg Gly Lys Lys Gly Ser Gly Gly Ile Thr Ile
310         85         90         95
312 Lys Lys Thr Gly Gln Ala Leu Val Phe Gly Ile Tyr Glu Glu Pro Val
313       100       105       110
315 Thr Pro Gly Gln Ser Asn Met Val Val Glu Arg Leu Gly Asp Tyr Leu
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331 <400> SEQUENCE: 11
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335 Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly Cys Gly
336       20       25       30
338 Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala Tyr Leu
339     35     40     45
341 Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu Val Asp
342   50       55       60
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345   65           70           75           80
347 Glu
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353 <212> TYPE: PRT
354 <213> ORGANISM: Artificial Sequence
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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VERIFICATION SUMMARY

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